

CONDITION ASSESSMENT AND LIFE  
EXPECTANCY PREDICTION FOR DEVICES

ABSTRACT OF THE DISCLOSURE

Assessing the condition of a device includes receiving signals from a sensor that makes electrical measurements of the device. An expected response of the device is estimated in accordance with the received signals, and a measured response of the device is established in accordance with the received signals. An output residual is calculated according to the expected response and the measured response. The condition of the device is assessed by identifying a fault of the device in accordance with the output residual.